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- [54] **MULTICASTING WITH KEY WORDS**
- [75] Inventors: **Douglas Hunt**, Seattle; **Mauro Calvi**, Bellevue; **Carlen Brett Bennett**, Seattle; **Robert L. Hines, Jr.**, Seattle; **James Peterson**, Seattle, all of Wash.
- [73] Assignee: **Immediata Corporation**, Seattle, Wash.
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- [52] U.S. Cl. **707/3; 707/4; 707/10; 707/104; 395/200.36; 395/200.48**
- [58] Field of Search **707/3, 4, 5, 6, 707/10, 104; 395/200.36, 200.48**
- [56] **References Cited**

U.S. PATENT DOCUMENTS

5,557,798	9/1996	Bowless	395/650
5,634,048	5/1997	Ryu et al.	395/610
5,694,594	12/1997	Chang	395/606
5,727,129	3/1998	Barrett et al.	395/12
5,754,938	5/1998	Herz et al.	455/4.2
5,754,939	5/1998	Herz et al.	455/4.2
5,761,662	6/1998	Dasan	707/10
5,796,952	8/1998	Davis et al.	395/200.54

OTHER PUBLICATIONS

TIBnet; date of Pub. Apr. 22, 1997; Publisher: TIBCO on the Internet.

Rus et al. "Customizing Information Capture and Access" ACM Transactions on Information Systems, vol. 15, No. 1, pp. 67-101, Jan. 1997.

Mostafa et al. "A Multi-Level Approach to Intelligent Information Filtering: Model, System and Evaluation" ACM Transactions on Information Systems, vol. 15, No. 4, pp. 368-399, Oct. 1997.

Primary Examiner—Thomas G. Black
Assistant Examiner—Michael J. Wallace, Jr.
Attorney, Agent, or Firm—Graybeal Jackson Haley, LLP

[57] ABSTRACT

A method for distributing timely information over a computer network where a Timely Information Server collects and organizes information from Timely Information Providers and then broadcasts the organized information to endusers in the form of an alerts over a plurality of alert channels. The alert is comprised of keywords and arguments, wherein the keywords describe the subject matter of the alert and the arguments provide content of the alert. The Timely Information Server maintains a dictionary of all possible keywords and the endusers copy a portion of the dictionary to their local computers to create individual keyword profiles which are comprised of keywords and Boolean operators. When an alert satisfies a Boolean equation in a users keyword profile the headline of the alert (stored as an argument) is displayed and the user is given the option to link his/her web browser to an associated URL (also stored as an argument).

70 Claims, 9 Drawing Sheets

